

## CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest

### Soil Erosion

#### Sheet and Rill Erosion

##### **Planning Criteria**

##### **Planning Criteria Met**

Soil surface organic residue cover greater than 80%; OR, Site is stable and without visible signs of erosion.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

The forest O horizon is covered with leaves, needles, fine woody debris, rocks, and/or herbaceous vegetation that protects the soil on more than 80% of the area.

Yes ☐ No ☐

#### Classic Gully Erosion

##### **Planning Criteria**

##### **Planning Criteria Met**

Classic gullies are not present; Or, Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

Classic Gullies are not present; Or, All classic gullies are stabilized; AND, All areas expected to have high erosion rates are stable.

Yes ☐ No ☐

Drainage and erosion control measures are implemented on roads, trails and landings to minimize detrimental effects of concentrated flow, erosion and sedimentation. Stream crossings are restored and stabilized.

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest  
Streambank, Shoreline, Water Conveyance Channels**

**Planning Criteria**

For shorelines and water conveyance channels; banks are stable or commensurate with normal geomorphological processes; AND, If bank erosion is present, it is beyond the client's control or commensurate with normal geomorphological processes; AND, For streambanks, SVAP2 bank condition element score greater than 5. If shorelines or water conveyance channels are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes ☐ No ☐

**Evaluation Tests**

Excluding all fundamentally unstable, natural geomorphic streambanks and shorelines, all streambanks and shorelines on the land use show few signs of erosion or bank failure; AND, Each is stable and protected with natural materials. If shorelines and water conveyance channels do not exist on the land management system, set this test statement to NA.

**Evaluation Test Met**

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set\_Forest**

**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

**Planning Criteria Met**

Organic matter within the soil is managed by means of proper forest management. Determined and documented by use of on-site evaluations and state specific forestland management practices.

Yes ☐ No ☐

**Evaluation Tests**

**Evaluation Test Met**

Tree/shrub residue is left in place to provide for natural organic matter cycling within the forest.

Yes ☐ No ☐

**Compaction**

**Planning Criteria**

**Planning Criteria Met**

Soil compaction is not a problem: AND, Activities do not cause soil compaction problems AND can be documented with prior conservation planning or other on-site evaluation methods.

Yes ☐ No ☐

**Evaluation Tests**

**Evaluation Test Met**

Soil compaction is limited to roads and landings. Tree root growth is not impeded. No more than 15% of the forested area is devoted to roads, trails, and landings.

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest****Excess Water****Runoff and Flooding and Ponding****Planning Criteria**

Runoff, flooding, and ponding is managed to minimize the impact on conservation measures and/or forest production.

**Planning Criteria Met**

Yes ☐ No ☐

**Evaluation Tests**

Drainage and erosion control measures are implemented on roads, trails and landings to minimize detrimental effects of concentrated flow, erosion and sedimentation; AND, stream crossings are restored and stabilized.

**Evaluation Test Met**

Yes ☐ No ☐

## CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest

### Water Quality Degradation

#### Pesticides in Surface Water

##### **Planning Criteria**

##### **Planning Criteria Met**

Pesticides are stored, handled, disposed and applied to prevent runoff, spills, leaks and leaching; AND, Conservation practices and techniques are in place to minimize ground water impacts.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

Pesticides are not applied or stored on this land management system; Or, Pesticides are applied using a site-specific mixture of prevention, avoidance, monitoring, and suppression (PAMS) strategies. Environmental risk screening tool are used (such as WIN-PST or similar LGU approved tool); AND, application rates and timing are compliant with the label.

Yes ☐ No ☐

#### Pesticides in Ground water

##### **Planning Criteria**

##### **Planning Criteria Met**

Pesticides are stored, handled, disposed and applied to prevent runoff, spills, leaks and leaching; AND, Conservation practices and techniques are in place to minimize ground water impacts.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

Pesticides are not applied or stored on this land management system; OR, Pesticides are applied using a site-specific mixture of prevention, avoidance, monitoring, and suppression (PAMS) strategies; AND, Environmental risk screening tool are used (such as WIN-PST or similar LGU approved tool); AND, Application rates and timing are compliant with the label.

Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

### **Nutrients in Surface water**

#### **Planning Criteria**

Organic or inorganic nutrients are not applied and the PLU is not grazed; OR, If nutrients are applied, they are based on a soil test, tissue tests or nutrient budget and livestock access to streams is controlled.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

Livestock access to streams is limited to short periods of time and small areas.

#### **Evaluation Test Met**

Yes ☐ No ☐

The land adjacent to a stream, river, or other waterbody on the side or sides you control: - has diverse, natural plant cover typical to that along other streams within the drainage basin; - extend from the stream bank/shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater; AND, Have few places where concentrated runoff flows through.

Yes ☐ No ☐

Drainage and erosion control measures are implemented on roads, trails and landings to minimize detrimental effects of concentrated flow, erosion and sedimentation; AND, Stream crossings are restored and stabilized.

Yes ☐ No ☐

### **Excess Pathogens and Chemicals from Manure, bio-solids or Compost Applications in Surface Water**

#### **Planning Criteria**

Potential sources of pathogens or pharmaceuticals are not applied on the land; OR, Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface water sources.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

Livestock access to stream is controlled; OR, Livestock are limited to small watering or crossing areas.

#### **Evaluation Test Met**

Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

### **Excessive Sediment in Surface Water**

#### **Planning Criteria**

There are no untreated sources of erosion and streams or shoreline are not on or adjacent to site; OR, Upslope treatment and buffer practices address concentrated flows to water bodies; AND, Heavy use areas are stable; AND, The SVAP2 - bank condition is greater than or equal to 5.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

The land adjacent to a stream, river, or other waterbody on the side or sides you control does: - have diverse, natural plant cover typical to that along streams in your area, - extend from the stream bank/shoreline for a distance of 35 feet or (if applicable) the minimum State buffer-width requirement, whichever is greater; AND, Have few places where concentrated runoff flows through.

#### **Evaluation Test Met**

Yes ☐ No ☐

Drainage and erosion control measures are implemented on roads, trails and landings to minimize detrimental effects of concentrated flow, erosion and sedimentation; AND, Stream crossings are restored and stabilized.

Yes ☐ No ☐

### **Elevated Water Temperature**

#### **Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is greater than or equal to 5; AND, The SVAP2 - riparian area quantity element score is greater than or equal to 5; AND, The SVAP2 - canopy cover element score is greater than or equal to 6; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

#### **Evaluation Test Met**

Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

### **Air Quality Impacts**

#### **Emissions of Particulate Matter (PM) and PM Precursors**

##### **Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

Field operations and activities are managed to minimize particulate emissions on the farm (i.e. multi-operation field tools, precision guidance systems, Prescribed Burn plans are implemented, and treatment/management of all non-vegetated, unpaved travel ways.)

##### **Evaluation Test Met**

Yes ☐ No ☐

Prescribed Burning activities are timed and implemented to ensure basic smoke management practices are applied. If Prescribed Burning is not used, set this test statement to NA.

Yes ☐ No ☐

#### **Emissions of Ozone Precursors**

##### **Planning Criteria**

Operations that produce ozone precursor emissions are not present; OR, or are managed to reduce emissions. Ozone precursor producing activities may include: Engines (combustion source), Pesticide application, Burning, CAFO /manure management, or fertilization (manure/commercial).

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

If prescribed burning is used a prescribed burning plan is followed that includes all applicable smoke management practices.

##### **Evaluation Test Met**

Yes ☐ No ☐



## CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest

### Degraded Plant Condition

#### Undesirable Plant Productivity and Health

##### Planning Criteria

##### Planning Criteria Met

Forest species are adapted to site AND, Composition and stand density meet ecological site objectives and production goals.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

The forest or woodlot is fully stocked with tree species adapted to the site, has spacing for good tree growth and air flow between and beneath, does not have excessive tree mortality, has an understory made up of desirable species and is not inhibited by brush or other undesirable vegetation. Monitoring for insects and disease is completed to prevent outbreaks that would be detrimental to forest health.

Yes ☐ No ☐

#### Inadequate Structure and Composition

##### Planning Criteria

##### Planning Criteria Met

Plant communities contain adequate diversity, composition and structure to support desired ecological functions for the ecological site.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

The current plants provide the desired habitat structure and composition. State identified invasive plants and noxious weeds are controlled.

Yes ☐ No ☐

The forest or woodlot is fully stocked with tree species adapted to the site, has spacing for good tree growth and air flow between and beneath, does not have excessive tree mortality, has an understory made up of desirable species and is not inhibited by brush or other undesirable vegetation.

Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set\_Forest**

### **Excessive Plant Pest Pressure**

#### **Planning Criteria**

Plant pest damage to plants is below economic or environmental thresholds; AND, plant pests, including noxious and invasive species are managed.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

Noxious weeds, and plants that impact forest growth, are controlled or are not present.

#### **Evaluation Test Met**

Yes ☐ No ☐

Trees are selected or planted that are tolerant of known damaging pests. Woody debris that fosters pest outbreaks is appropriately treated to reduce risk.

Yes ☐ No ☐

### **Wildfire Hazard, Excessive Biomass Accumulation**

#### **Planning Criteria**

Wildfire hazards is not a concern; OR, Fuel loads and fuel ladders are managed to provide defensible space.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

The forest or woodlot is fully stocked with tree species adapted to the site, has spacing for good tree growth and air flow between and beneath, does not have excessive tree mortality, has an understory made up of desirable species and is not inhibited by brush or other undesirable vegetation. Monitoring for insects and disease is completed to prevent outbreaks that would be detrimental to forest health. Woody debris on the forest floor supports wildlife but does not present an elevated fire risk.

#### **Evaluation Test Met**

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is greater than or equal to 7; AND, The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, Food is available in quality and extent to support habitat requirements for the species of interest.

Yes ☐ No ☐

**Evaluation Tests**

**Evaluation Test Met**

Plant growth and cover is managed to develop and maintain habitat to benefit target wildlife species.

Yes ☐ No ☐

Trees and shrubs provide nectar and pollen sources for pollinators and beneficial insects as well as providing adequate food for browsing animals.

Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

### **Inadequate Habitat - Cover/Shelter**

#### **Planning Criteria**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) the SVAP2 - barriers to movement element score is greater than or equal to 7; AND, the SVAP2 - fish habitat complexity element score is greater than or equal to 7; AND, the SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR conservation practices and management practices are in place that meet or exceed species or guild-specific habitat model thresholds; OR, habitat cover is of available quality and extent to support requirements for the species of interest.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

#### **Evaluation Test Met**

Yes ☐ No ☐

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes ☐ No ☐

Livestock access to stream(s) is controlled; OR, livestock access is limited to small watering or crossing areas

Yes ☐ No ☐

Timber is managed in uneven aged stands, and not clear-cut.

Yes ☐ No ☐

Plant growth and cover is managed to develop and maintain habitat to help chosen wildlife species. (see State Wildlife Action Plan)

Yes ☐ No ☐

Designated areas are planted as food and habitat for pollinators/beneficial insects. For example, planted to nectar and pollen producing plants and protected from disruption--chemical, biological, or mechanical.

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest****Inadequate Habitat - Water****Planning Criteria**

The WHSI rating is greater than or equal to 0.5;AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, Water is available in quality and extent to support habitat requirements for the species of interest.

**Planning Criteria Met**Yes ☐ No ☐**Evaluation Tests**

Water for habitat is accessible and at the right depth, duration, and time of year for chosen wildlife species (See State Wildlife Action Plan)

**Evaluation Test Met**Yes ☐ No ☐

## **CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

### **Inadequate Habitat - Habitat Continuity (Space)**

#### **Planning Criteria**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) The SVAP2 - barriers to movement element score is greater than or equal to 7; AND, The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, The connectivity of habitat components are adequate to support stable populations of target species.

#### **Planning Criteria Met**

Yes ☐ No ☐

#### **Evaluation Tests**

Designated areas are planted as habitat for pollinators and beneficial insects. Non-cropped area protected from disruption during nesting and foraging periods--chemical, biological, or mechanical.

#### **Evaluation Test Met**

Yes ☐ No ☐

Connectivity between food resources and cover and shelter is provided for the target wildlife species. (see State Wildlife Action Plan)

Yes ☐ No ☐

The land adjacent to a stream, river, or other waterbody on the side or sides you control does: - have diverse, natural plant cover typical to that along streams in your area; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes ☐ No ☐

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest**

**Livestock Production Limitation**

**Inadequate Feed and forage**

**Planning Criteria**

**Planning Criteria Met**

Livestock forage, roughage, and supplemental nutritional requirements are met.

Yes ☐ No ☐

**Evaluation Tests**

**Evaluation Test Met**

An existing Prescribed Grazing plan is on schedule. Animal stocking levels, minimum forage heights are maintained and rotation periods are designed to avoid harm to sensitive plants. If the forest is not grazed, set this test statement to NA.

Yes ☐ No ☐

**Inadequate Water**

**Planning Criteria**

**Planning Criteria Met**

Water of acceptable quality and quantity is adequately distributed to meet animal needs.

Yes ☐ No ☐

**Evaluation Tests**

**Evaluation Test Met**

The livestock have enough drinking water of good quality. If livestock do not use this land management system, set the test statement to NA.

Yes ☐ No ☐

**CSP-2018-1 TN - Statewide NIPF Land Evaluation Set Forest****Inefficient Energy Use****Equipment and Facilities****Planning Criteria****Planning Criteria Met**

On-site renewable energy and/or energy conserving implements have been implemented to improve energy efficiency for field operations.

Yes ☐ No ☐

**Evaluation Tests****Evaluation Test Met**

Energy conserving implements are used for all or some field operations.

Yes ☐ No ☐